Northland Products, Inc.

WATERBOY TRANSPORTER™

Quality is not expensive, It's Priceless

Owners Manual

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Introduction

Congratulations on your purchase of a Northland Products, Waterboy Transporter. Your Waterboy can provide years of reliable service with only minor care and maintenance. Waterboy Transporters are covered by a limited 1 year warranty. These units are **not** intended for transporting potable water

When calling with any questions about your Waterboy, or when purchasing accessories, please have your VIN number available. This is located on the tag attached to the left of the center front frame rail.

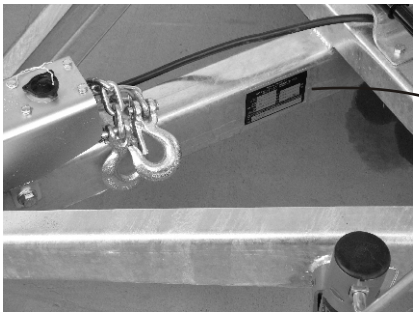


Fig. 1

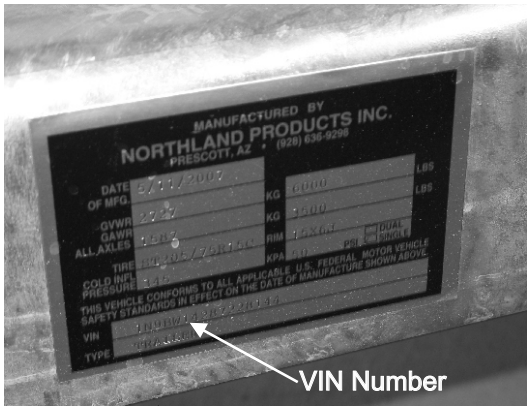


Fig. 2

Your Waterboy VIN#_____

Before Using Your Waterboy

We recommend that the following items be checked before using your Waterboy Transporter

1. Brake actuator fluid level(Hydraulic brake units only). Remove the master cylinder cap and fill the reservoir to 3/4 full with DOT-3 or DOT-4 brake fluid. Fig. 3. Consult the Titan service manual for further information.

2. For electric brake system questions, see the “THE ENGAGER” service instructions in section 6 of the manual.

3. Tire pressure. ST205/75D15 tire pressure cold is 50 PSI. Always check tires for cracking due to environmental exposure. Consult a tire professional if you have any questions.

4. Pump engine oil should be checked before each use. Use 4-stroke automotive detergent oil of API service class SE or higher grade. For further information consult the manufacturers service manual for your specific engine (Robin, Honda, etc.).

5. Proper operation of lights. Repair or replace damaged or worn out components as required.

6. Check pump engine fuel level. Use only 87 octane (unleaded) or better.

7. Check that all hoses are securely fastened and connections tight. Close hatch while traveling.

8. Rotate the tongue jack to the travel position once the hitch has been attached to the tow vehicle.

9. For pump information consult the supplied Grainger or Multiquip manual.

9. Do not allow children to play on, around, **or in** your Waterboy.

10. Limit speed while transporting to 45 mph.

Fig. 3

Operation

3.1 Filling your Waterboy

Your Waterboy can be filled by connecting to a pressurized water supply, drafting from a pond or other static water source, or by simply pouring through the manhole. Fig. 4 shows the standard hose configuration.

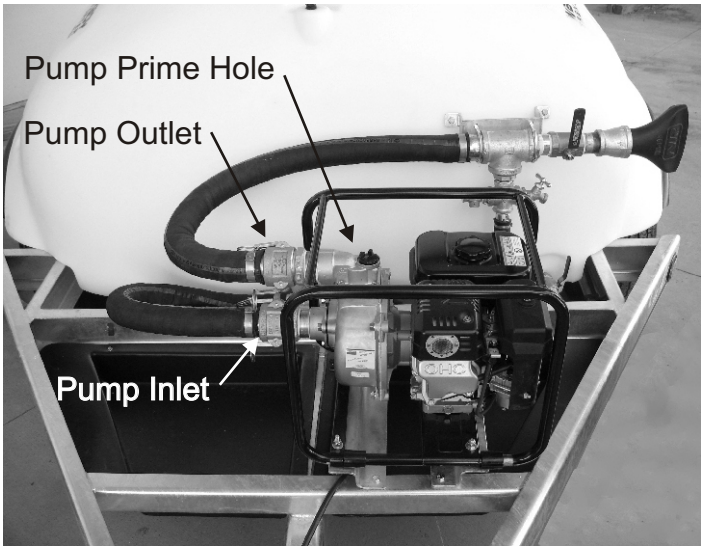
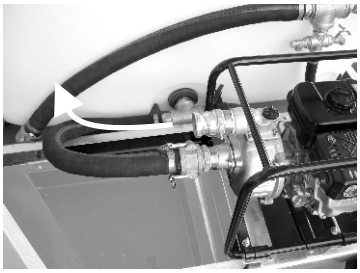


Fig. 4

3.1.1 Drafting from a static water supply

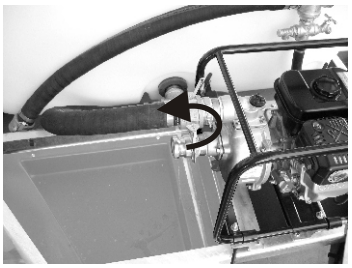
1. Disconnect the pump outlet hose. Fig. 5

Fig. 5



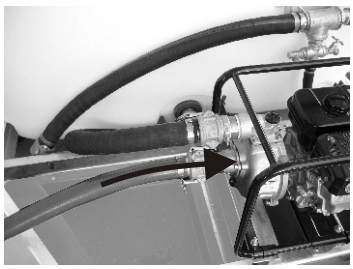
2. Disconnect the pump inlet hose and attach to the pump outlet. Fig. 6

Fig. 6



3. Attach the suction hose to the pump inlet. Be sure other end is under the surface of the water source. Fig. 7

Fig. 7



3.1.1 Drafting from a static water supply. Cont'

4. Before attempting to start pump engine, remove the cap from the pump priming hole and fill the pump housing with water. Reinstall cap and be sure it is tight before starting engine. Fig. 1

5. Open tank valve by turning counterclockwise so it aligns with the transporter body.

6. Start pump engine. There will be a several minute wait while the pump self-primes. Water level can be observed through the tank material. Turn off engine when tank is full. When finished filling, turn tank valve 1/4 turn clockwise, Fig. 8. This will provide app. 550 gallons.

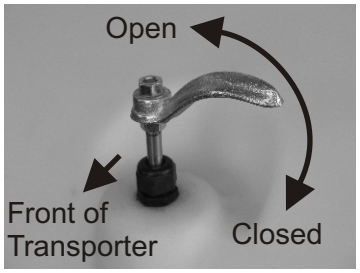


Fig. 8

3.1.2 Connecting to a pressurized water supply.

1. Connecting and filling the tank from a pressurized supply does not require use of the pump and engine.

2. Locate the fill connection on the right rear of the tank and attach the fill hose. Fig. 9

3. This connection is designed to break away if the transporter is driven away with the hose still connected. Be sure safety strap is connected.

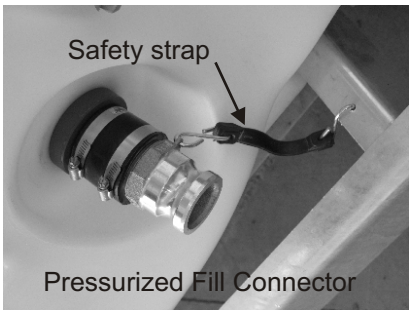


Fig. 9

4. Remove manhole cover and start source pump or open source valve. Fig. 10

5. Be sure to close source valve or turn off pump, then disconnect rear tank connection and reinstall manhole cover before moving transporter

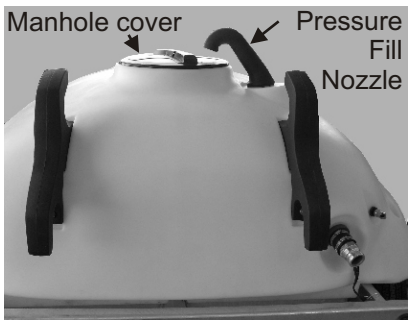


Fig. 10

3.2 Dispensing Water

Your Waterboy Transporter has 3 ways to dispense water.

1. Side Sprayer

2. Rear Sprayer

3. Hose connection

3.2.1 Side Sprayer

1. Be sure tank drain, plumbing drain, rear sprayer, and hose valves are closed.

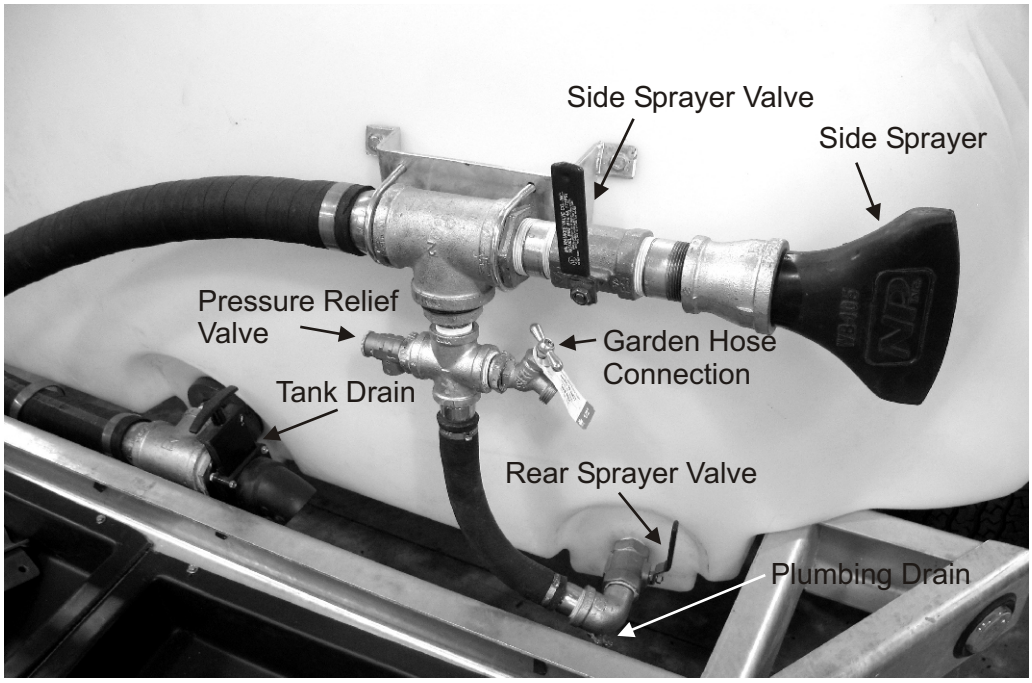


Fig. 11
(Shown with engine removed for clarity)

2. Start engine.

3. Stand away from the end of the side sprayer nozzle and open side sprayer valve. Fig 11

4. Close the valve and turn off the engine when done.

3.2.2 Rear Sprayer

1. Be sure tank drain, plumbing drain, side sprayer, and hose valves are closed.

2. Start engine.

3.2.2 Rear Sprayer cont'

3. Be sure rear transporter area is clear and open rear sprayer valve, Fig. 11. Nozzles can be rotated to direct spray.

4. When done close valve and turn off engine.

3.2.3 Garden Hose Connection

1. Make sure all other valves are closed.

2. Connect hose tightly to garden hose connection.

3. Start engine.

4. Open garden hose connection.

5. When done close valve, turn off engine, and store garden hose.

3.2.4 Transfer Connection

1. Your Waterboy engine/pump can be used to transfer water from one location to another. Simply disconnect the transporter plumbing hose from the pump outlet and connect a longer discharge hose.

2. Prime pump and start engine as directed previously.

3. When done, turn off engine, remove discharge hose, and reconnect transporter plumbing.

3.3 Storage

Your Waterboy can be stored safely with water in the tank, even in cold weather. Simply open the plumbing drain to remove water in the plumbing system. Be sure to close valve before the next use. Fig. 8

Be sure to lock access cover lid to discourage children from trying to enter the Waterboy.

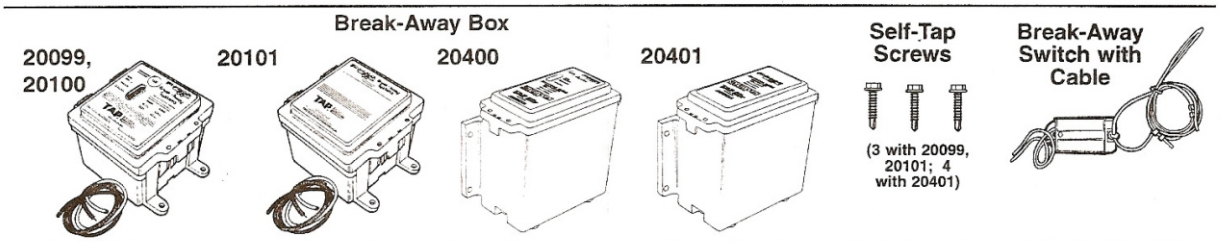
Cover your tires to protect from sun exposure. Tires can deteriorate even when not being used, causing an unsafe condition.

The ENGAGER™

PART #20099, #20100, #20101 #20400, #20401

Break-Away System for Single and Tandem Trailers

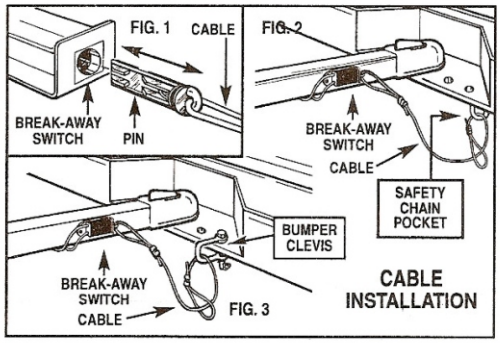
Make sure you have all parts before you start your installation.



The Engager™ Break-Away System is designed to bring trailers safely to a stop by activating electric brakes, should a trailer be disconnected while driving. This type of safety system is required in most states on trailers rated over 3,000 Lb. GVW. The following instructions must be precisely followed to ensure proper operations. Please read the following instructions thoroughly before installing this product. Your trailer must have operational electric brakes before installation, and your auxiliary power wire on the tow vehicle must be connected. Once you determine your trailer brakes work, and you verify that your auxiliary power is connected, find a secure location on your trailer to mount the Break-Away Kit.

UNIT MUST BE FULLY CHARGED BEFORE USE

- For Models 20099, 20100 and 20400: **If the red light illuminates when the test button is pushed, the battery charge is low. Connect the trailer plug to the tow vehicle so the Break-Away Kit can charge from the vehicle's battery (This can only be done after kit is installed on trailer). The amber light will illuminate indicating the battery is charging.** The battery should re-charge in about twenty minutes.
- For Models 20101 and 20401: Check battery charge with a battery tester. If charge is low, follow same instructions as for 20099, 20100 and 20400. (This kit also has a built-in charger).



MOUNTING INSTRUCTIONS:

1. Locate secure surface on trailer to mount Break-Away Kit.
2. Route screws through provided holes in the Break-Away Kit plastic casing. Use wrench and drill to secure to trailer.
3. Next, mount Break-Away Switch close enough on trailer that cable can be attached to vehicle.
4. Follow "Wiring Instructions".

WIRING INSTRUCTIONS:

1. Splice one blue wire of the Break-Away Switch to the electric brake wire coming from the trailer side connector (**A** - see diagram on next page).
2. Connect other blue wire of Break-Away Switch to the blue wire (labeled "Brake") from the Break-Away box (**B**). (**Note:** Blue wires are interchangeable on the Break-Away Switch.)
3. Splice white wire from Break-Away box to existing ground wire on trailer or ground directly to trailer frame (**C**).
4. Splice black wire on Break-Away box to trailer 12-Volt auxiliary power lead (**D**). This will charge the Break-Away battery when vehicle is in use.
5. Test unit by pulling firmly on cable of Break-Away Switch. Battery will activate brakes. **(Note: Do not use this kit as a parking brake.) Battery should be charged and tested prior to each trailer outing.**

OPERATING INSTRUCTIONS:

1. **Test your Break-Away Kit before each outing as described in Step 5 of the wiring instructions.**
2. Once tested, Break-Away Switch cable should be secured to vehicle bumper or frame. The cable can be attached many different ways. Two of the most common are: (1) Pull the pin out of the Break-Away Switch (Fig. 1) and route through safety chain pocket (Fig. 2), then through cable loop and reconnect pin. (2) Attach cable loop to a bumper clevis (Fig. 3). Do not loop cable over hitch ball, cable may bounce off while vehicle is moving. **Note:** Plunger pin must be facing the rear of the vehicle directly behind where you secure the cable on your vehicle. Any other angle may cause Break-Away Switch failure.

ADDITIONAL INFORMATION FOR MODEL NUMBERS 20099, 20100 and 20400

- The trailer plug should be detached from the towing vehicle when using the push to test feature to test the Break-Away battery voltage level. Otherwise you will be testing the towing vehicle's battery.
- If the trailer is plugged into a tow vehicle, the yellow "Charging" light will always be on.
- The LED assembly will only work with 12-volt batteries. The lower the battery voltage goes, the dimmer the LEDs will illuminate.

Break-Away Kit accessories and replacement parts

#20005 Break-Away Switch complete with cable (7" wires)
#20014 Break-Away Switch complete with cable (44" wires)
#20007 Break-Away Kit Charger (20101, 20102, and 20401 only)
#20009 Replacement Break-Away Switch cable and pin

20099, 20100, and 20101 accessories

#20105 Plain lid
#20106 Lid with meter assembly (20101 can be upgraded to this lid)
#20107 Metal mounting plate

20400 and 20401 accessories

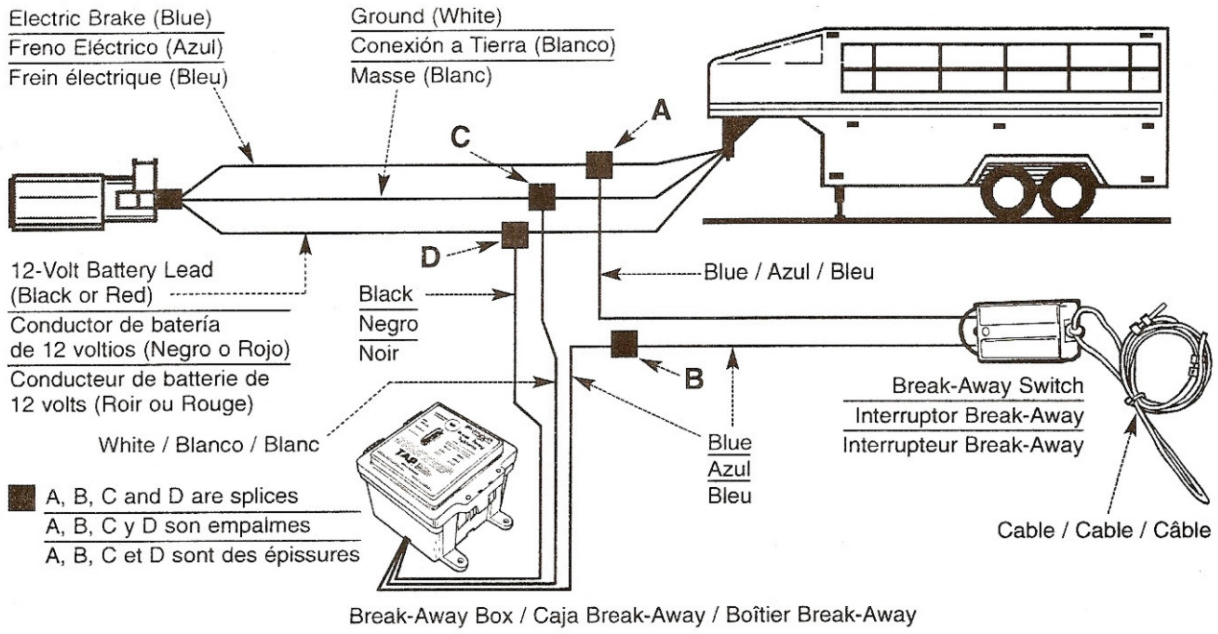
#20405 Plain lid
#20406 Lid with meter assembly (20401 can be upgraded to this lid)
#20407 Metal mounting plate

YOUR TRAILER MUST HAVE OPERATIONAL ELECTRICAL BRAKES AND YOUR AUXILIARY POWER WIRE ON THE TOW VEHICLE MUST BE CONNECTED TO USE THIS PRODUCT.

311-0288-029 Rev. E 3/05

3.4 Electric Brakes Cont'

DIAGRAM WITH CHARGER
DIAGRAMA CON EL CARGADOR
DIAGRAMME AVEC CHARGEUR



Note: Wire By Function Only. Color Coding is Not Standard Among Manufacturers.

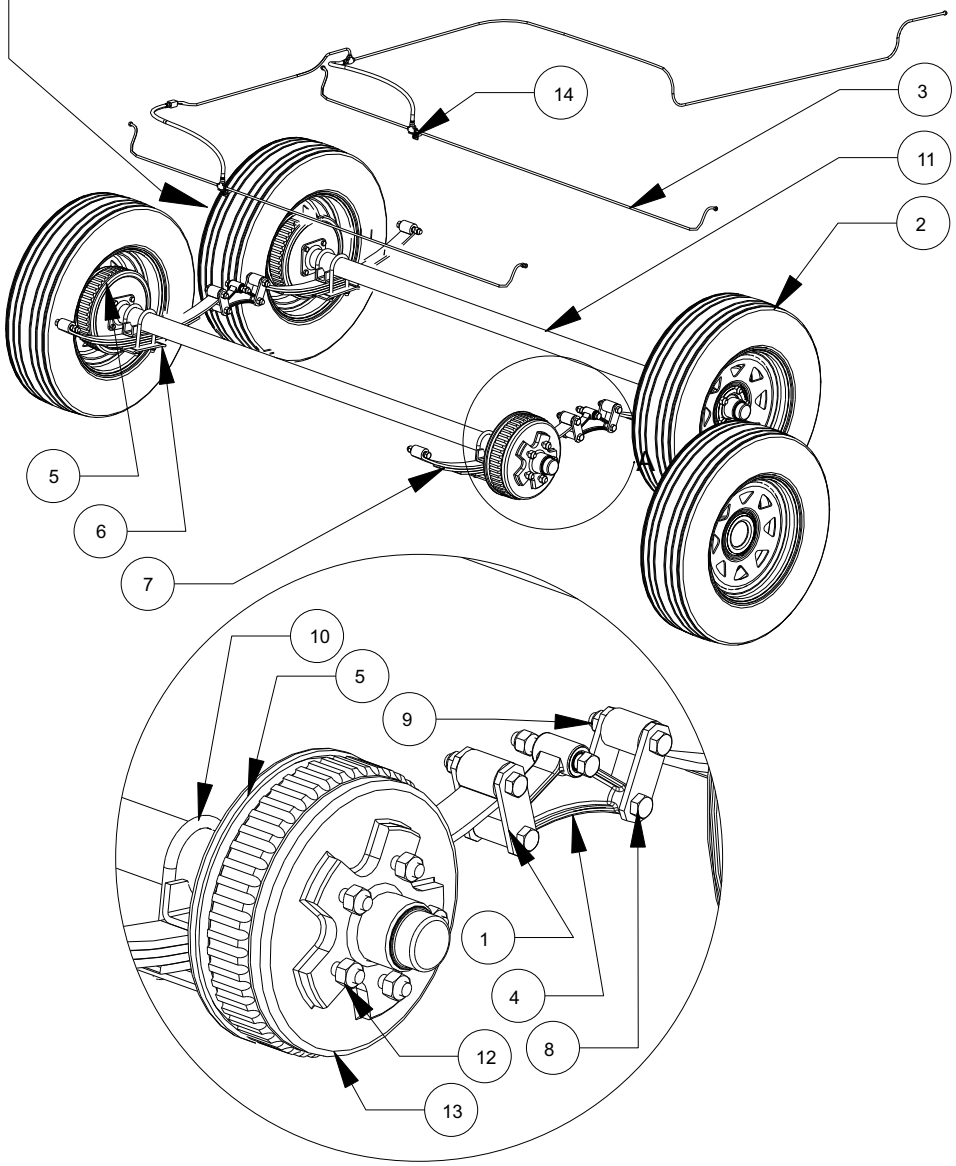
Nota: Instale el cableado por su función solamente. Código de color no es la norma entre todos los fabricantes.

Remarque: Câbler uniquement selon les fonctions. Le code de couleur peut varier d'un constructeur à l'autre.

4.1 Parts List
Axle Assembly
Hydraulic

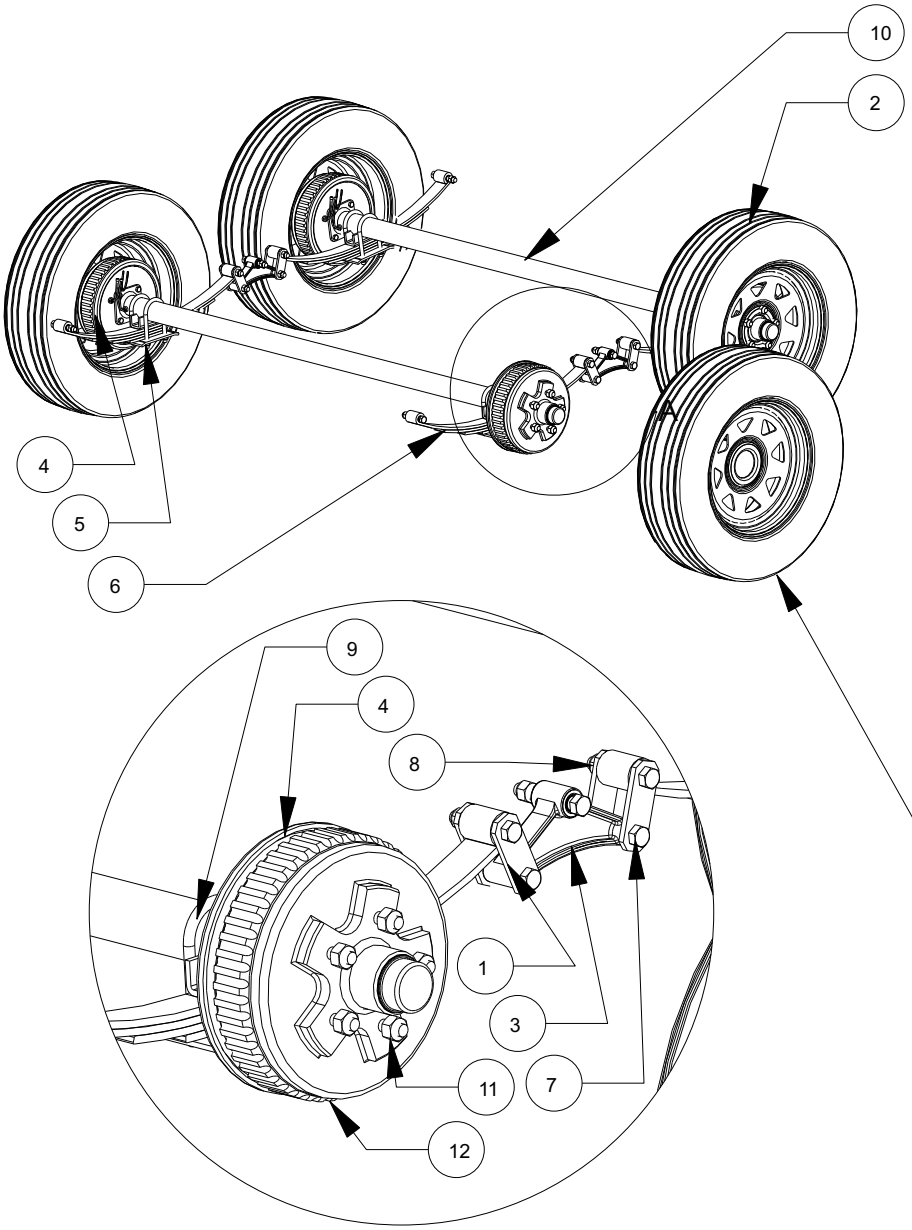
Item No.	Part Number	Qty	Description
1	WB2-181	8	Shackle Link
2	WB2-187	4	ST205/75R15 Tire, Rim
3	WB2-172H	1	Brake Line Assembly
4	WB2-182	2	Equalizer
5	WB2-176H	4	Backing Plate
6	WB2-186H	4	U Bolt Plate
7	WB2-178H	4	Leaf Spring
8	WB2-180	14	Shackle Bolt
9	WB2-179	14	Shackle Nut
10	WB2-185H	8	U Bolt 1/2 x 5.5
11	WB2-174H	2	Axle
12	WB2-675	20	Lug Nut
13	WB2-175H	4	Brake Drum
14	WB2-684	2	Screw : Hex-Flange - 0.25 x 1.0

Caution:
Tire pressure must be maintained at 50 PSI(cold).



4.2 Parts List
Axle Assembly
Electric

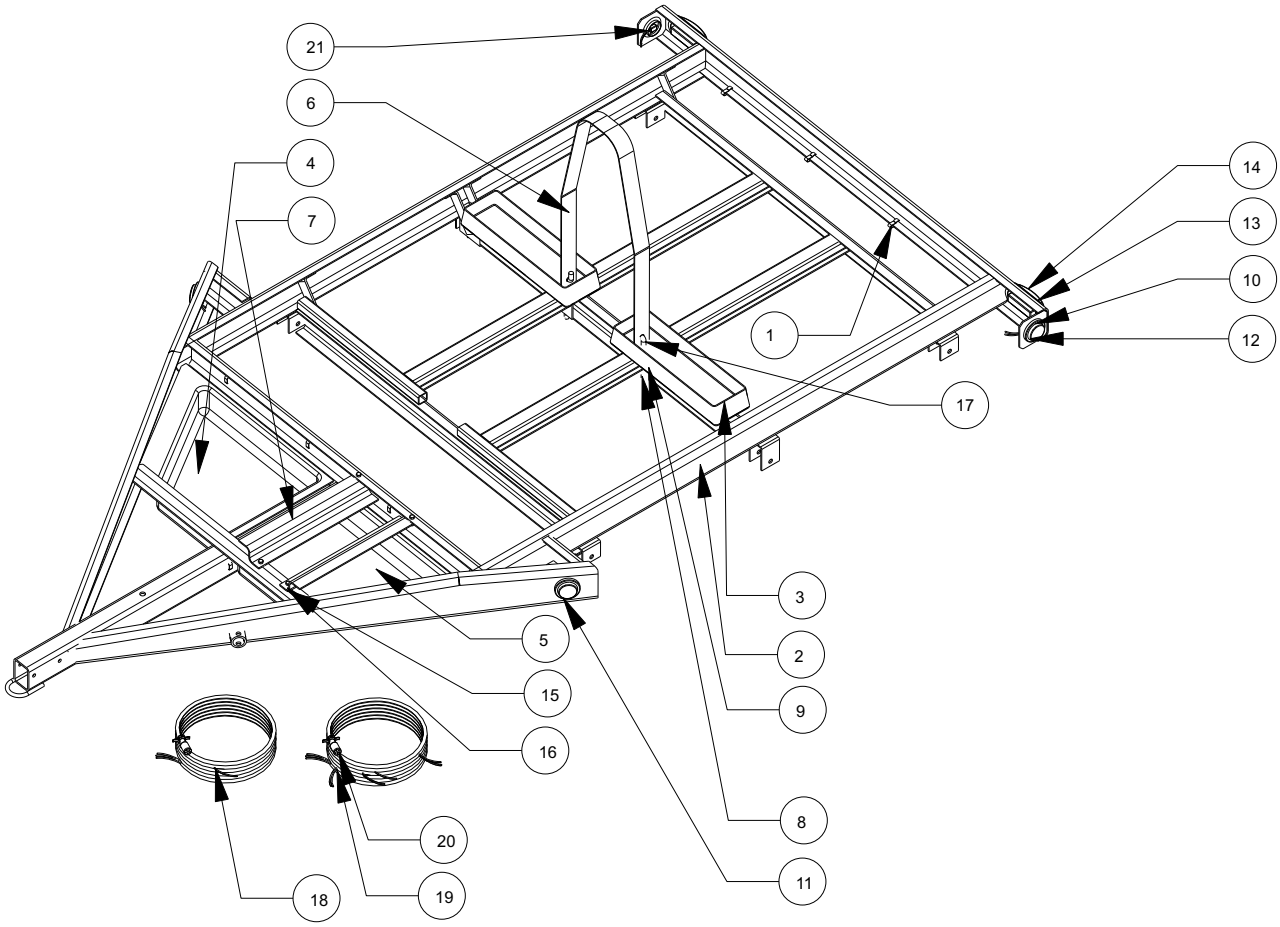
Item No.	Part Number	Qty	Description
1	WB2-181	8	Shackle Link
2	WB2-187	4	ST205/75D15
3	WB2-182	2	Equalizer
4	WB2-176E	4	Back Plate
5	WB2-186E	4	U Bolt Plate
6	WB2-178E	4	Leaf Spring
7	WB2-180	14	Shackle Bolt
8	WB2-179	14	Shackle Locknut
9	WB2-185E	8	U Bolt 1/2 x 5.5
10	WB2-174E	2	Axle
11	WB2-675	20	Lug Nut
12	WB2-175E	4	Brake Drum



Caution:
Tire pressure must be maintained at 50 psi

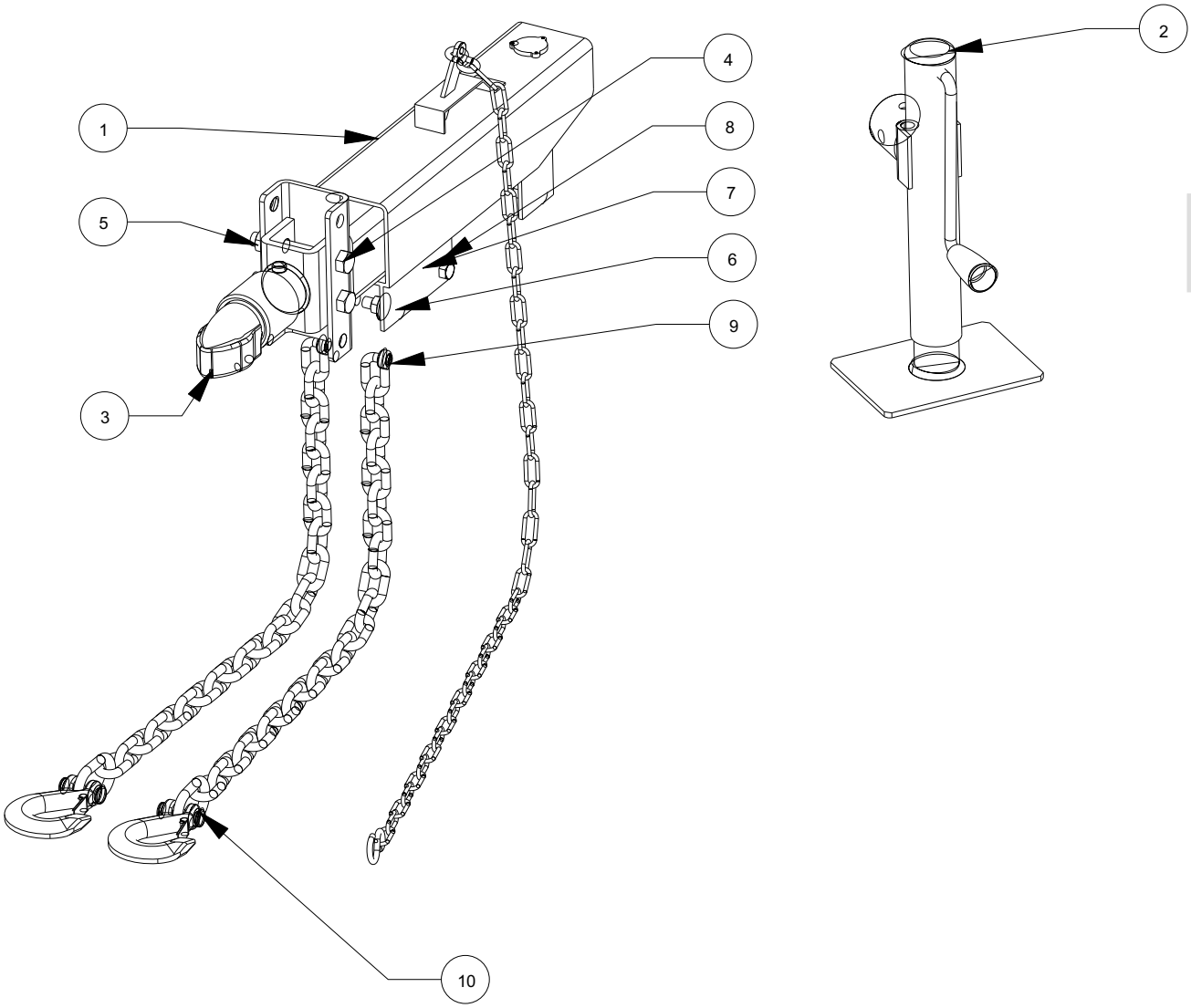
4.3 Parts List
Frame Assembly

Item No.	Part Number	Qty	Description
1	WB2-601	16	Clip
2	WB2-600	1	Frame
3	WB2-602	2	Baffle Storage Pan
4	WB2-607	1	Right Pan
5	WB2-603	1	Left Pan
6	WB2-604	1	Tank Hold Down Strap
7	WB2-605	2	Pump Mounting Bracket
8	WB2-199	2	5/8 Insert Lock Nut
9	WB2-608	2	5/8 Washer
10	WB2-609	4	Marker Grommet
11	WB2-610	2	Amber Marker Light
12	WB2-611	2	RED Marker Light
13	WB2-612	2	Tail Light Grommet
14	WB2-613	2	Tail Light
15	WB2-133	4	3/8 x 1.25 HH G5 Galv.
16	WB2-134	4	3/8 Insert Lock Nut
17	WB2-606	2	Anchor Bolt
18	WB2-678H	1	Hydraulic Brake Harness
19	WB2-678E	1	Electric Brake Harness
20	WB2-234	2	6-Pin Connector
21	WB2-685	4	Pigtail



4.4 Parts List
Hitch Assembly

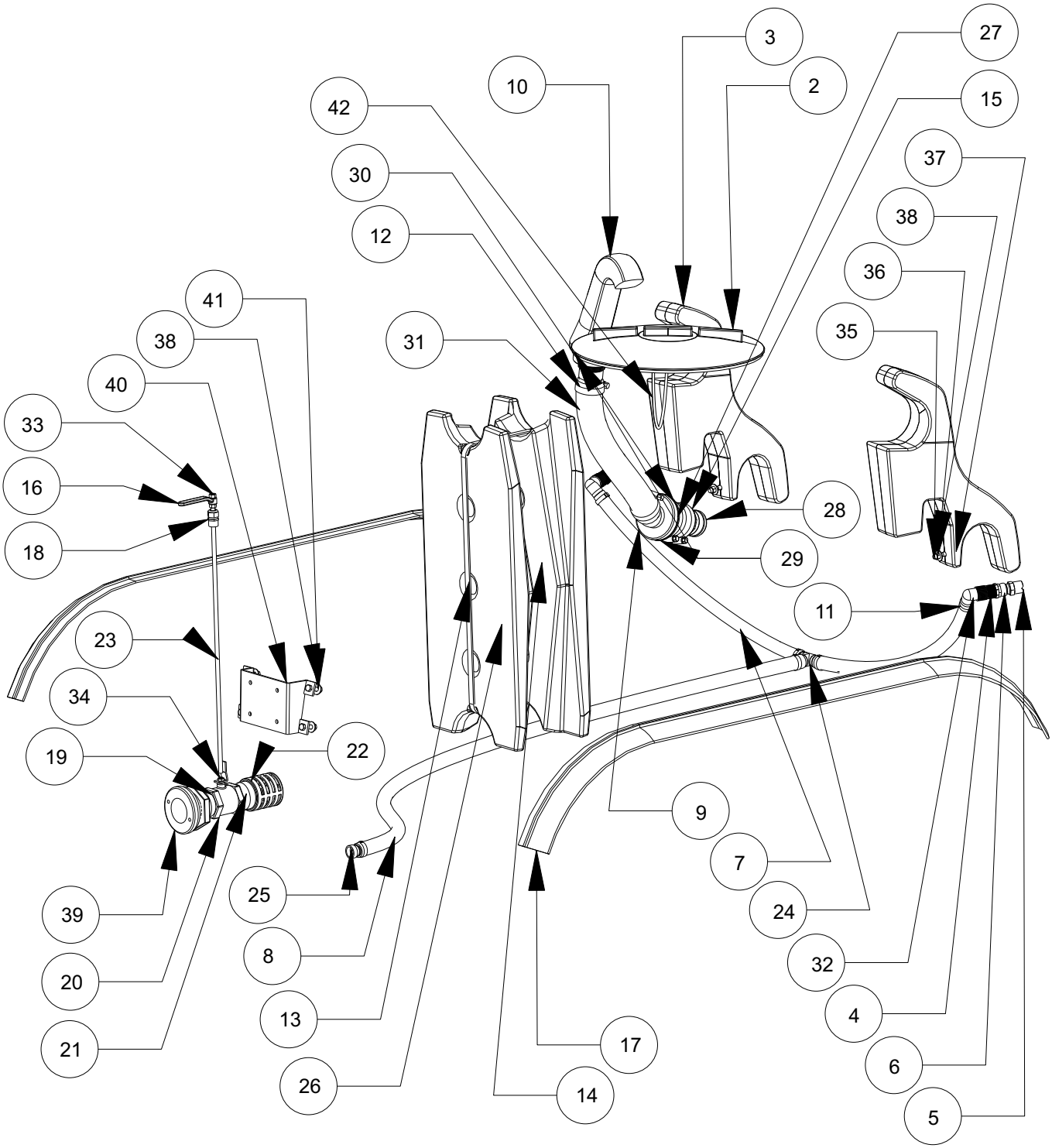
Item No.	Part Number	Qty	Description
1	WB2-173	1	7,500 lb. Actuator
2	WB2-208	1	2,000 lb. Tongue Jack
3	WB2-189	1	Hammerblow Hitch 2" Ball
4	WB2-198	2	5/8 x 4.5 HH G5 Galv.
5	WB2-199	2	5/8 Insert Lock Nut
6	WB2-190	6	1/2 x 1.5 HH G5 Galv.
7	WB2-233	6	1/2 Insert Lock Nut
8	WB2-192	6	1/2 Washer
9	WB2-197	2	3/8 Cold Shut
10	WB2-196	2	5/16 Safety Chain



4.5 Parts List
Tank Parts

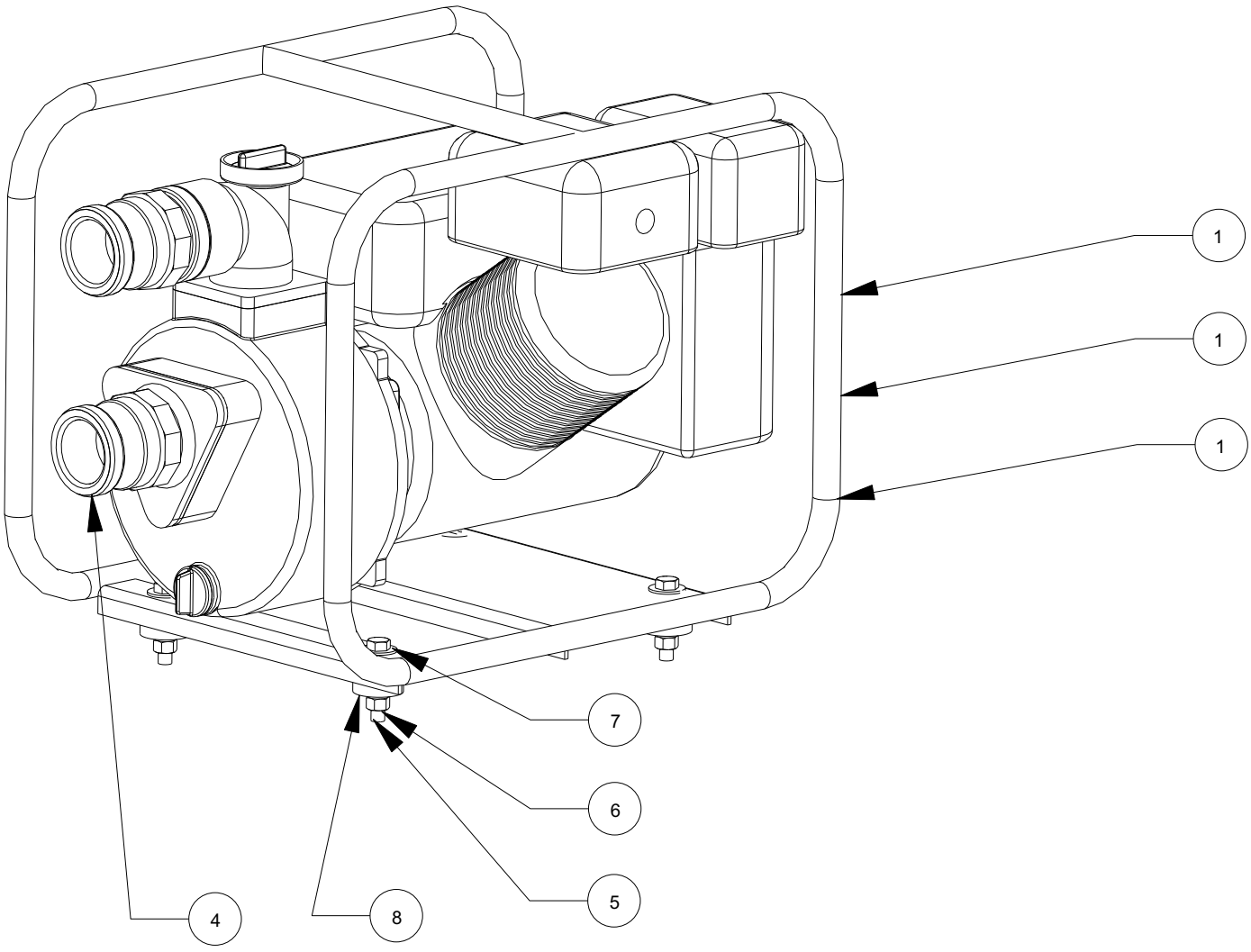
Item No.	Part Number	Qty	Description
1	WB2-614	1	Water Tank
2	WB2-148	1	16in Manway Cover
3	WB2-615	2	Hose Wrap
4	WB2-618	2	1 x .75 Plastic Bushing
5	WB2-619	2	Rear Spray Nozzle
6	WB2-620	2	Lockline Male Adapter
7	WB2-621	2	1" Sprayer Hose
8	WB2-622	1	1" Sprayer Supply Hose
9	WB2-623	1	Fill Adapter
10	WB2-624	1	Fill Spout
11	WB2-625	6	1.5in Clamp
12	WB2-626	2	2.5in Clamp
13	WB2-627	1	Baffle Strap
14	WB2-628	1	Buckle
15	WB2-629	2	Break Away Coupling Clamp
16	WB2-631	1	Handle, Internal Valve
17	WB2-632	2	Flexy Flare
18	WB2-633	1	Valve Shaft Seal
19	WB2-118	1	2in Close Nipple
20	WB2-120	1	2" Valve
21	WB2-230	1	2in Close Nipple PVC
22	WB2-113	1	Suction Strainer
23	WB2-634	1	Internal Valve Rod
24	WB2-635	1	1in Barb Tee PVC
25	WB2-686	1	1" Barb x 1" MPT PVC
26	WB2-636	2	Baffle Plate
27	WB2-637	1	Break Away Coupling
28	WB2-146	1	2in MxM Cam Lock
29	WB2-638	2	Fill Pipe Gasket
30	WB2-639	2	Fill Pipe Nut
31	WB2-640	1	2in Hydrant Hose
32	WB2-641	2	1in Barb x 1in MPT 90
33	WB2-642	2	3/8 - 16 Nut
34	WB2-643	1	3/8 - 24 Jamb Nut SS
35	WB2-644	2	3/8 - 16 x 2.5 HH CS SS
36	WB2-645	6	3/8 - 16 Insert Lock Nut SS
37	WB2-157	2	3/8 Washer
38	WB2-648	6	3/8 Sealing Washer SS
39	WB2-117	1	2in Bulk Head
40	WB2-647	1	Service Valve Bracket
41	WB2-649	4	3/8 - 16 x 1.5 HH CS SS
42	WB2-679	1	.25 Rope

4.5 Parts List
Tank Parts Cont'



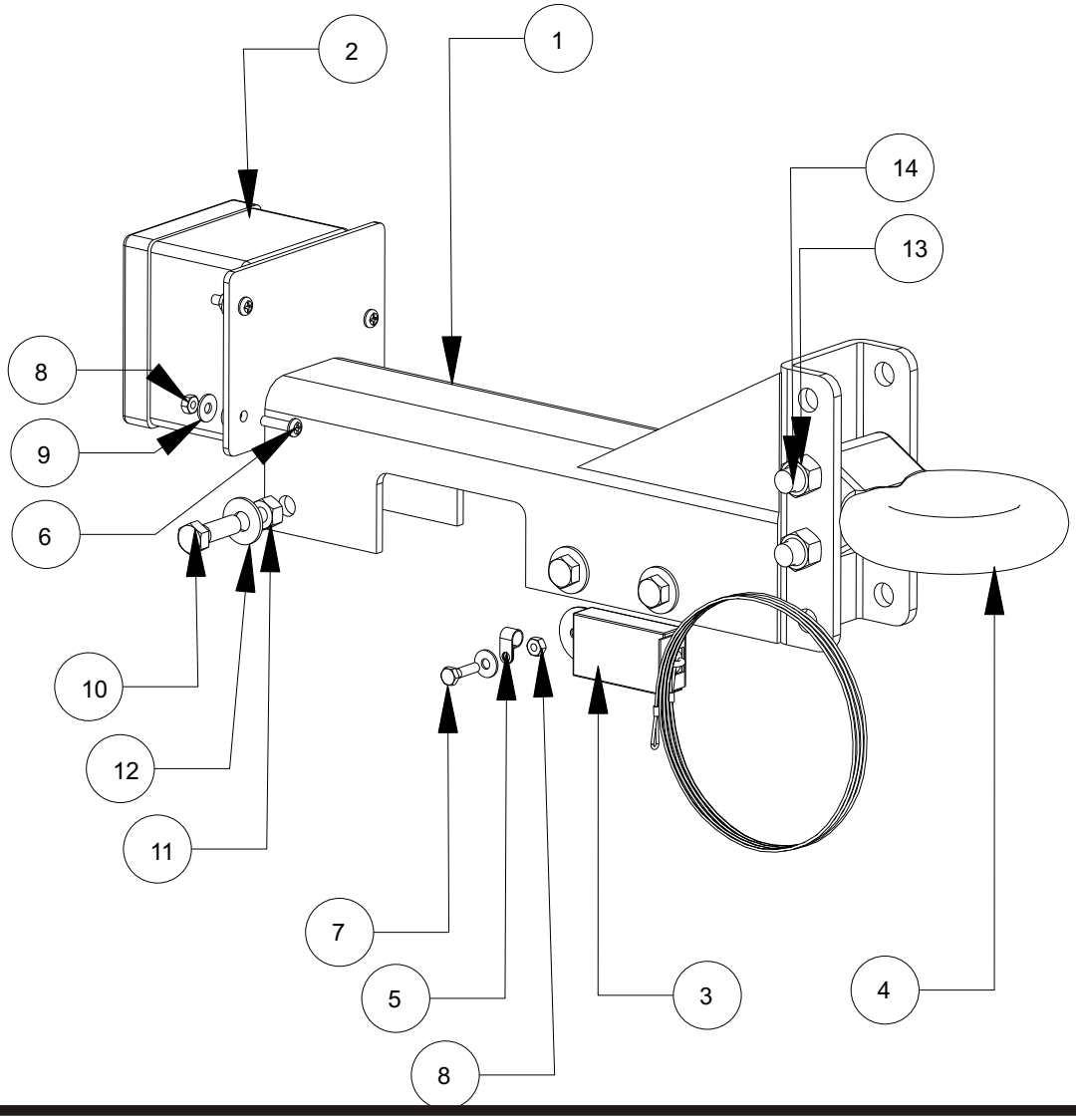
4.6 Parts List
Pump Assembly

Item No.	Part Number	Qty	Description
1	WB2-227	1	Robin Pump Assembly
2	WB2-153	1	Honda Pump Assembly
3	WB2-152	1	Honda HP Pump Assembly
4	WB2-652	2	2in M Cam x 2in FPT
5	WB2-244	4	3/8 x 2 HH G5 EG
6	WB2-134	4	3/8 Insert Lock Nut
7	WB2-157	4	3/8 Flat Washer
8	WB2-243	4	Rubber Pump Mount



4.7 Parts List Electric Brake Hitch Assembly

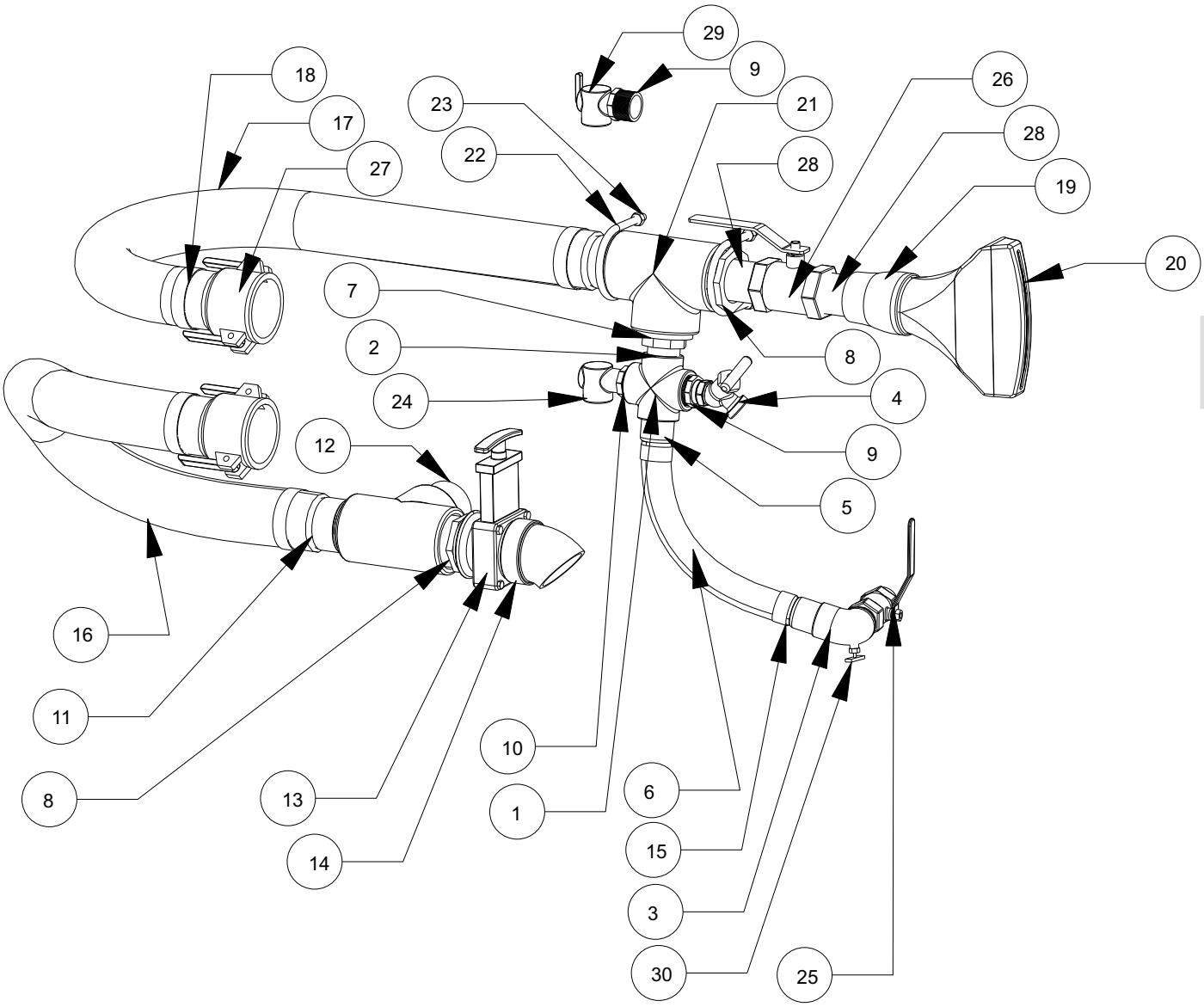
Item No.	Part Number	Qty	Description
1	WB2-666	1	Hitch mount
2	WB2-667	1	Break away battery
3	WB2-668	1	Break away switch
4	WB2-669	1	3 in pintle ring
5	WB2-670	1	Harness clamp
6	WB2-671	3	Screw : Pan - 0.25 x 1.0
7	WB2-674	1	Bolt : Hex - 0.25 x 1.0
8	WB2-672	4	1/4-20 insert lock nut
9	WB2-673	4	1/4 galv. washer
10	WB2-190	6	1/2 x 1.5 HH G5 Galv.
11	WB2-233	6	1/2 Insert Lock Nut
12	WB2-192	6	1/2 washer
13	WB2-199	2	5/8 Insert Lock Nut
14	WB2-198	2	5/8 x 4.5 HH G5 Galv.



4.8 Parts List Pump Manifold Assembly

Item No.	Part Number	Qty	Description
1	WB2-653	1	1in Cross
2	WB2-130	2	1in Close Nipple
3	WB2-136	1	1in Street Ell
4	WB2-128	1	1/2 MPT Hose Bib
5	WB2-131	2	1in MPT x 1in Barb
6	WB2-654	1	Rear Sprayer Hose
7	WB2-655	1	2 x 1 Bushing
8	WB2-123	2	2 x 1.5 Bushing
9	WB2-656	2	1 x 1/2 Bushing
10	WB2-657	1	1 x 3/4 Bushing
11	WB2-124	2	2in Barb x 2in MPT
12	WB2-118	1	2in Close Nipple
13	WB2-658	1	Dump Valve
14	WB2-663	1	Dump Valve 45
15	WB2-239	2	1.5in Hose Clamp
16	WB2-659	1	2in Suction Hose
17	WB2-660	1	2in Discharge Hose
18	WB2-174	4	P11 Punch Lok Clamp
19	WB2-661	1	2 x 1.5 Bell
20	WB2-105	1	Side Spray Nozzle
21	WB2-125	2	2in Tee
22	WB2-225	2	5/16 x 2.5in U-Bolt
23	WB2-171	4	5/16 Insert Lock Nut
24	WB2-662	1	75 PSI Pressure Relief
25	WB2-129	1	1in BB Valve
26	WB2-121	1	1.5in BB Valve
27	WB2-664	2	2in F Cam x 2in Barb
28	WB2-665	2	1.5 x 2.5 Nipple
29	WB2-680	1	125 PSI Pressure Relief
30	WB2-676	1	Drain Cock

4.8 Parts List
Pump Manifold
Assembly Cont'



Specifications

Capacity.....550 Gallons
GVWR.....6000 lbs with 2” Ball
7000 lbs with 2 5/16” Ball
Weight.....1325 lbs (empty)
Dims.....L - 13’2”, W- 80”, H- 53 1/4”
Axles.....Dexter Tandem 3500 lb Each
Brakes.....4 Wheel Hydraulic Surge
Wheels.....Steel Spoke 5”on 4 ½” Centers
Tires.....Biased ST205/75D15
Suspension.....Dual Leaf Spring
Frame.....5” (Galvanized) Channel Roll
Form 3” x 4” Welded Tongue
Hitch.....Standard 2”, Optional 2 5/16”
Or Pintle
Tank.....Polyethylene 3/8” Thick, 16”
Removable Manhole Cover
Repairable

Accessories

High Pressure Pump
Model # QP-205SH Honda GX-160
- 5.5 hp with Oil Alarm
- Multiquip Centrifugal Pump
- 2” Suction with 1 ½” Discharge
- 106 psi @ 106 g.p.m.

Hose Kit
- (1) 2” x 20’ Suction Hose w/Strainer
- (1) 1 ½” x 50’ Discharge Hose w/Fittings
- (1) Fog Nozzle w/ 1 ½” FPT